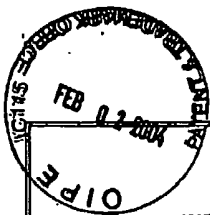
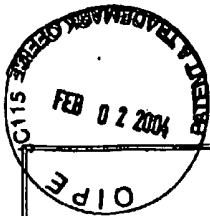


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				APPLICANT Krisko et al.				
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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
ATP		Re 34,035	18 Aug 1992	Olmgren et al.				
		2,808,351	31 Oct 1952	Colbert et al.				
		3,505,092	07 Apr 1970	Ryan et al.				
		3,528,906	15 Sep 1970	Cash, Jr. et al.				
		3,840,451	08 Oct 1974	Golyanov et al.				
		3,844,924	29 Oct 1974	Cunningham et al.				
		3,925,182	09 Dec 1975	Carmichael et al.				
		3,968,018	06 Jul 1976	Lane et al.				
		3,990,784	09 Nov 1976	Gelber				
		4,045,125	30 Aug 1977	Farges				
ATP		4,052,520	04 Oct 1977	Chang et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
ATP		2,290,999	Dec 1998	Canada				
ATP		WO 98/23549	04 Jun 1998	PCT				
ATP		WO 97/11916	03 Apr 1997	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
ATP		Veersamy, et al., "Optical and Electronic Properties of Amorphous Diamond." <u>Diamond and Related Materials</u> , Vol. 2 (1993), pp 782-787. (no month)						
EXAMINER 977			DATE CONSIDERED 9/23/04					
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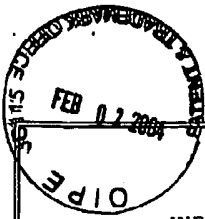
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATP		4,060,660	29 Nov 1977	Carlson et al.			
		4,107,350	15 Aug 1978	Berg et al.			
		4,130,672	19 Dec 1978	Onoki et al.			
		4,166,018	28 Aug 1979	Chapin			
		4,194,022	18 Mar 1980	Gillery			
		4,212,903	15 Jul 1980	Schnell et al.			
		4,214,014	22 Jul 1980	Hofer et al.			
		4,332,922	01 Jun 1982	Kossmehl et al.			
		4,466,258	21 Aug 1984	Sando et al.			
		4,485,146	27 Nov 1984	Mizuhashi et al.			
		4,486,286	04 Dec 1984	Lewin et al.			
ATP		4,503,125	05 Mar 1985	Nelson et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
ATP		WO 97/42351	13 Nov 1997	PCT			
ATP		WO 96/25534	22 Aug 1996	PCT			
ATP		JP 3-122274	24 May 1991	JP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
ATP		"Surface Hardening of Ceramic and Glass Materials," IBM Technical Disclosure Bulletin, Vol. 36, Issue 1 (January 1993), pg 225.					
EXAMINER gjf			DATE CONSIDERED 9/23/04				
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				APPLICANT Krisco et al.				
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
ATP	X	4,504,519	12 Mar 1985	Zelez	X	X	X	
		4,568,622	04 Feb 1986	Minami et al.				
		4,569,738	11 Feb 1986	Kieser et al.				
		4,661,409	28 Apr 1987	Kieser et al.				
		4,704,339	03 Nov 1987	Green et al.				
		4,713,311	15 Dec 1987	Senske et al.				
		4,717,622	05 Jan 1988	Kurokawa et al.				
		4,725,345	16 Feb 1988	Sakamoto et al.				
		4,728,529	01 Mar 1988	Etzkom et al.				
		4,732,454	22 Mar 1988	Salto et al.				
		4,737,252	12 Apr 1988	Hoffman				
		4,769,291	06 Sep 1988	Belkind et al.				
ATP		4,777,090	11 Oct 1988	Ovshinsky et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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ATP	X	JP 3-187038 A	15 Aug 1991	JP	X	X	X	X
ATP		JP 3-193872	23 Aug 1991	JP				
ATP		JP 7-508491	21 Sep 1995	JP				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
ATP	X	*Surface Hardening of Ceramic and Glass Materials, <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, Issue 3 (March 1993), pp 291-292.						
EXAMINER <i>g-jf</i>				DATE CONSIDERED <i>9/23/04</i>				
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATD	4,780,334	25 Oct 1988	Ackerman			
	4,816,127	28 Mar 1989	Eltouky			
	4,849,081	18 Jul 1989	Ross			
	4,851,095	25 Jul 1989	Scobey et al.			
	4,859,493	22 Aug 1989	Lemelson			
	4,882,827	28 Nov 1989	Kusumi et al.			
	4,894,133	16 Jan 1990	Hedgcoth			
	4,915,977	10 Apr 1990	Okamoto et al.			
	4,919,778	24 Apr 1990	Dietrich et al.			
	4,961,958	09 Oct 1990	Desphandey et al.			
	4,981,568	01 Jan 1991	Taranko et al.			
ATP	5,008,002	16 Apr 1991	Uno et al.			

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ATP	JP 7-149545	13 Jun 1995	JP				
ATP	JP 7-315889	05 Dec 1995	JP				
ATP	JP 7-315874	05 Dec 1995	JP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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ATP	5,026,415	25 Jun 1991	Yamamoto et al.			
	5,032,421	16 Jul 1991	Sarna et al.			
	5,047,131	10 Sep 1991	Wolfe et al.			
	5,073,241	17 Dec 1991	Watanabe			
	5,073,450	17 Dec 1991	Nietering			
	5,106,671	21 Apr 1992	Amberger et al.			
	5,107,643	28 Apr 1992	Swensen			
	5,139,633	18 Aug 1992	Kashida et al.			
	5,171,414	15 Dec 1992	Amberger et al.			
	5,190,807	02 Mar 1993	Kimock et al.			
	5,201,926	13 Apr 1993	Szczyrbowski et al.			
	5,209,996	11 May 1993	Kashida et al.			
ATP	5,245,468	14 Sep 1993	Demiryont et al.			

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ATP	JP 8-109043	30 Apr 1996	JP				
ATP	JP 8-012378	16 Jan 1996	JP				
ATP	JP 8-11631	16 Jan 1996	JP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

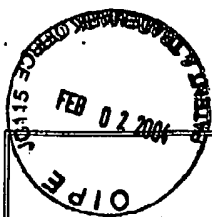
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ATP	5,284,539	08 Feb 1994	McKernan et al.			
	5,286,524	15 Feb 1994	Slutz et al.			
	5,318,830	07 Jun 1994	Takamatsu et al.			
	5,346,600	13 Sep 1994	Nleh et al.			
	5,366,764	22 Nov 1994	Sunthakar			
	5,378,527	03 Jan 1995	Nakanishi et al.			
	5,401,543	28 Mar 1995	O'Neill et al.			
	5,415,756	16 May 1995	Wolfe et al.			
	5,453,459	26 Sep 1995	Roberts			
	5,470,661	28 Nov 1995	Bailey et al.			
	5,476,713	19 Dec 1995	Abiko et al.			
	5,482,602	09 Jan 1996	Cooper et al.			
ATP	5,498,475	12 Mar 1996	Takigawa et al.			

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						YES	NO
ATP	JP 9-202651	05 Aug 1997	JP				
ATP	JP 10-36144	10 Feb 1998	JP				
ATP	JP 10-048805 A	20 Feb 1998	JP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATP	5,643,432	01 Jul 1997	Qiu			
	5,645,900	08 Jul 1997	Ong et al.			
	5,669,144	23 Sep 1997	Hahn et al.			
	5,674,625	07 Oct 1997	Takahashi et al.			
	5,679,431	21 Oct 1997	Chen et al.			
	5,683,561	4 Nov 1997	Hollars et al.			
	5,723,172	03 Mar 1998	Sherman			
	5,733,669	31 Mar 1998	Veyhl et al.			
	5,745,291	28 Apr 1998	Jenkinson			
	5,763,087	09 Jun 1998	Falabella			
	5,780,119	14 Jul 1998	Deamaley et al.			
	5,789,040	04 Aug 1998	Martinu et al.			
ATP	5,814,196	29 Sep 1998	Hollars et al.			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATP	5,820,994	13 Oct 1998	Gotoh et al.			
	5,830,327	03 Nov 1998	Kolenkow			
	5,830,332	03 Nov 1998	Babich et al.			
	5,846,613	08 Dec 1998	Neuville			
	5,888,593	30 Mar 1999	Petrmichl et al.			
	5,972,184	26 Oct 1999	Hollars et al.			
	6,124,044	26 Sep 2000	Swidler			
	6,156,171	5 Dec 2000	Hollars et al.			
	6,165,616	28 Dec 2000	Lemelson et al.			
	6,210,750	03 Apr 2001	Cho et al.			
	6,261,693	17 Jul 2001	Veerasamy			
↓	6,277,507	21 Aug 2001	Anzaki et al.			
ATP	6,319,326	20 Nov 2001	Koh et al.			

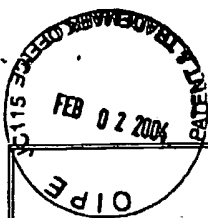
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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				FILING 06 August 1999		GROUP 1775	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ATP		6,333,084	25 Dec 2001	Woodard et al.			
		6,365,010 B1	02 Apr 2002	Hollars			
		6,397,776	04 Jun 2002	Yang et al.			
		6,074,981	13 Jun 2000	Tada et al.			
		6,156,171	05 Dec 2000	Hollars et al.			
		6,165,598	26 Dec 2000	Nelson			
		6,165,616	26 Dec 2000	Lemelson et al.			
		6,210,750	03 Apr 2001	Cho et al.			
		6,261,693	17 Jul 2001	Veerasamy			
		6,299,981	09 Oct 2001	Azzopardi et al.			
		6,333,084	25 Dec 2001	Woodard et al.			
ATP		6,365,010 B1	02 Apr 2002	Hollars			
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